(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 4 August 2005 (04.08.2005)

PCT

(10) International Publication Number WO 2005/071112 A2

(51) International Patent Classification⁷:

C12Q 1/68

(21) International Application Number:

PCT/GB2005/000244

(22) International Filing Date: 26 January 2005 (26.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

0401639.0 26 January 2004 (26.01.2004) GB 0412758.5 8 June 2004 (08.06.2004) GB

- (71) Applicant (for all designated States except US): ISIS IN-NOVATION LTD [GB/GB]; Ewert House, Ewert Place, Summertown, Oxfordshire OX2 7SG (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): VAUX, David [GB/GB]; Sir William Dunn School of Pathology, South Parks Road, Oxford OX1 3RE (GB).
- (74) Agents: CORNISH, Kirstina, Victoria, Joy et al.; Kilburn & Strode, 20 Red Lion Street, London WC1R 4PJ (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: MOLECULAR ANALYSIS

(57) Abstract: The present invention relates to a method of determining the sequence and/or occurrence frequency of a number of variable gene inserts from a gene library, which inserts exhibit a desired specific characteristic, wherein each variable gene insert is flanked (5') and (3') by known sequences, the method comprising; selecting the number of inserts by their ability to exhibit the desired specific characteristic, conducting polymerase chain reaction to amplify the selected number of variable gene inserts to produce components of a mixed PCR product, ligating the components of the mixed PCR product to produce a concatenated sequence and sequencing or determining the occurrence of the gene inserts in the concatenated sequence.

